Amendment of the Claims

In the claims:

Please amend the claims as follows (additions are underlined and deletions are struck through):

1-48. (Cancelled).

49. (Currently Amended) A method of producing an edible plant whose edible portions comprise significant concentrations of selenium the method comprising:

growing an edible <u>Brassicaceae</u> plant in an environment that contains selenium under conditions that allow the plant to accumulate selenium in its edible portions, whereby the plant is a member of the family Brassicaceae; and

harvesting the plant after it has accumulated selenium in [[its]] the edible portions to a concentration higher than that of the selenium in the environment, wherein the step of harvesting comprises harvesting the plant after it has accumulated concentration of selenium in [[its]] the edible portions is at least about 2500 mg/kg dry weight, to a concentration that is several fold higher than that of the selenium in the environment and wherein at least 20% of the accumulated selenium is in the form of Se-methyselenocysteine.

- 50. (Cancelled).
- 51. (Cancelled).
- 52. (Cancelled).
- 53. (Cancelled).
- 54. (Cancelled).
- 55. (Cancelled).

- 56. (Cancelled).
- 57. (Currently Amended) The method of claim 51, wherein: the plant is a member of the family Brassicaceae Brassica plant.
- 58. (Currently Amended) The method of <u>any one of claims 49 or 51</u>, wherein: the plant is of a species selected from the group consisting of *Brassica juncea*, *Brassica oleracea*, and *Brassica carinata*.
- 59. (Cancelled).
- 60. (Cancelled).
- 61. (Cancelled).
- 62. (Cancelled).
- 63. (New) A method of producing an edible plant whose edible portions comprise significant concentrations of selenium, the method comprising:

growing an edible *Brassicaceae* plant in an environment that contains selenium under conditions that allow the plant to accumulate selenium in the edible portions; and

harvesting the plant after it has accumulated selenium in the edible portions to a concentration higher than that of the selenium in the environment,

wherein the concentration of selenium in the edible portions of the plant is at least about 2000 mg/kg dry weight, and

wherein at least 20% of the accumulated selenium is in the form of Semethylselenocysteine.

64. (New) A method of producing an edible plant whose edible portions comprise significant concentrations of selenium, the method comprising:

growing an edible *Brassicaceae* plant in an environment that contains selenium under conditions that allow the plant to accumulate selenium in the edible portions; and

harvesting the plant after it has accumulated selenium in the edible portions to a concentration higher than that of the selenium in the environment,

wherein the concentration of selenium in the edible portions of the plant is at least about 1500 mg/kg dry weight, and

wherein at least 20% of the accumulated selenium is in the form of Semethylselenocysteine.

65. (New) A method of producing an edible plant whose edible portions comprise significant concentrations of selenium, the method comprising:

growing an edible Brassicaceae plant in an environment that contains selenium under conditions that allow the plant to accumulate selenium in the edible portions; and

harvesting the plant after it has accumulated selenium in the edible portions to a concentration higher than that of the selenium in the environment,

wherein the concentration of selenium in the edible portions of the plant is at least about 1000 mg/kg dry weight, and

wherein at least 20% of the accumulated selenium is in the form of Semethylselenocysteine.